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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,947		06/16/2005	Andrew J Boulton	8830-345US1 (211440)	8296	
23973	7590	90 10/03/2006 EXAMINER				
		LE & REATH TUAL PROPERTY	LEUNG, KA CHUN ALAN			
ONE LOG			ART UNIT	PAPER NUMBER		
		Y STREETS	3747			
PHILADE	LPHIA,	PA 19103-6996	DATE MAILED: 10/03/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/539,947	BOULTON, ANDREW J					
Office Action Summary	Examiner	Art Unit					
	Ka Chun Leung	3747					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
,	 s action is non-final.						
3) Since this application is in condition for allowa		secution as to the merits is					
closed in accordance with the practice under E							
Disposition of Claims							
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application	4) Claim(s) 1-16 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	, , , , , , , , , , , , , , , , , , , ,						
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	, ,						
8) Claim(s) 1-16 are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) acc		Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:							
1.☐ Certified copies of the priority document	s have been received.						
2.☐ Certified copies of the priority document		on No.					
3. Copies of the certified copies of the prio	• •						
application from the International Burea	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
A44							
Attachment(s)  1) Notice of References Cited (PTO-892)	A) Theoreton Summer	(DTO 412)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P						
Paper No(s)/Mail Date 6)  Other:							

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-13, drawn to a rotatable mounted shaft member mounted between the inlet and outlet passages to allow communication with a cylinder.

Group II, claim(s) 14-16, drawn to method of using a rotatable shaft member for allowing an ingress and egress of combustion and combustion gases from a cylinder.

2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the rotatable shaft member of Group I contains three rotatable positions for ingress, egress, or prevent leakage of combustion gases into or out of the cylinder. Group II claims the shaft as being rotated for preventing leakage only, thus other means for adjusting the shaft member (e.g. sliding the shaft member) in order to allow an ingress of air form the inlet or egress of combustion gases from the cylinder may be possible. Additionally, Group I further contains an inner tube within the rotatable shaft which are both driven by the crankshaft where the speed of rotation can also be adjusted.

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3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ka Chun Leung whose telephone number is (571) 272-9963. The examiner can normally be reached on 7:30AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Cronin can be reached on (571) 272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCL 28 SEPT 2006

STEPHEN K. CRONIN SUPERVISORY PATENT EXAMINER